# CODECRAFT'25

1. **Problem Statement** – Scholarship Track Portal
2. **Domain** – Web Application Development using AI
3. **Team Name** – Neural drive
4. **Team Members Name** – Hariprasad R, Jaikrishna V, Harish G, Yukesh I
5. **College Name** – R.M.K Engineering College

# Problem Statement Understanding

- Information **scattered across multiple portals**, complex eligibility
- **Missing real-time alerts** and application tracking
- **High barrier for rural & first-generation students due to language access**
- Students often miss **deadlines** or opportunities due to **complicated navigation**

## Uniqueness:

- **Push notifications** for **new scholarships, deadline changes,** and **status updates.**
- **Multilingual chatbot and guides**, making it inclusive across regions and languages.

# TECHNICAL APPROACH

## Technologies:

- **Backend**: Node.js
- **Frontend**: React.js.
- **Database**: MongoDB (NoSQL for scalability).
- **AI**: Python

## Methodology:

- Sprint-based iterations with **continuous feedback** from student focus groups.
- Train models **on past scholarship data** to predict eligibility and suggest best-fit options..
- **Early MVP with core features**: search, profile matching, alerts..
- **Usability testing** with real students

# FEASIBILITY AND VIABILITY

## Feasibility:

- **Proven Technologies**: The platform can be built using widely adopted stacks like React, Node.js, Python, and Firebase—all scalable and well-supported.
- **High Demand**: Students across India face real challenges in accessing scholarships—especially in rural areas and among first-gen aspirants

## Strategies:

- **Smart Categorization**: Tag scholarships by level (school, UG, PG), stream, category, income, and geography
- **Chatbot Guidance**: Deploy a multilingual assistant to answer queries and simulate mock applications.

## Potential challenges & risks:

- **Challenge**: Scholarship data is scattered, inconsistently formatted, and frequently updated across portals..
- **Risk**: Outdated or incorrect information could mislead users or cause missed opportunities.

# IMPACT & SOCIAL RELEVANCE

## Impact:

- **Increased Scholarship Utilization**: More students successfully apply and receive financial aid due to simplified processes and real-time alerts.
- **Improved Academic Outcomes**: Reduced dropout rates and higher enrollment in higher education, especially among underserved groups.

## Social relevance:

- **Educational Equity**: Bridges the gap for rural, first-generation, and marginalized students who often miss out due to systemic barriers.
- **Language Inclusivity**: Multilingual support ensures access for non-English speakers across India.

# MARKET DEMAND ANALYSIS

## Identified target audience:

- **First-generation college aspirants** seeking financial aid but lacking guidance.
- **Rural and semi-urban students** with limited access to digital resources or scholarship awareness.

## Unique value proposition:

- A **centralized, intelligent platform** that auto-matches scholarships to student profiles.
- **Real-time alerts** for deadlines, new opportunities, and status updates..

## Specific need:

- **High dropout and underutilization** of available scholarships **due to lack of awareness** and **complexity.**

## Market potential:

- Rising smartphone penetration and government focus on **Digital India** and **Education for All** amplify adoption potential.
- Opportunity to scale internationally with support for **global scholarships** and **cross-border applications**.

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# WORK FLOW